

Honors and Awards

Named 2007 Lowcountry Professional Development Provider of the Year by the Project Management Institute's (PMI) Charleston Chapter at their annual meeting for "profound contribution to advancement of the project management profession in the Lowcountry," Charleston, SC, November 13, 2007.

Best Paper Award from the American Society for Engineering Education Professional Interest Council V (PIC V) and named one of five outstanding conference papers at their 2007 annual conference. The paper was selected from 1,652 peer-reviewed papers. The paper entitled, "Addressing the Career Development Needs of Experienced Project Professionals," was co-authored with Dr. Ray Jones, Associate Dean of The Citadel Graduate College. The award comes with \$1,000 and recognition during the annual awards banquet at the 2008 Annual Conference and Exposition in Pittsburgh, PA.

Teaching Overview

A- Courses Taught

Spring 2007

CIVL 101-01 Engineering Drawing
CIVL 101-03 Engineering Drawing
CIVL 327-02 Asphalt and Concrete Laboratory
CIVL 327-81 Asphalt and Concrete Laboratory
ENGR 653-81 Technical Project Support and Operations (Course developer and instructor)

Fall 2006

CIVL 100-02 Introduction to Civil Engineering
CIVL 100-04 Introduction to Civil Engineering
CIVL 314-03 Engineering Administration
CIVL 409-02 Introduction to Geotechnical Engineering
CIVL 411-01 Engineering Management
ENGR 652-81 Applications of Quality Management (Course developer and instructor)

Summer 2006

ENGR 650-91 Overview of Technical Project Management

Spring 2006

CIVL 327-02 Asphalt and Concrete Laboratory
CIVL 327-81 Asphalt and Concrete Laboratory
CIVL 402-01 Geotechnical Engineering Laboratory
CIVL 402-02 Geotechnical Engineering Laboratory
CIVL 410-01 Geotechnical Engineering II
CIVL 450-02 Civil and Environmental Engineering Intern
ENGR 651-81 Technical Project Planning and Scheduling (Course developer and instructor)

Fall 2005

CIVL 100-01 Introduction to Civil Engineering
CIVL 100-04 Introduction to Civil Engineering
CIVL 409-01 Introduction to Geotechnical Engineering
CIVL 409-02 Introduction to Geotechnical Engineering
CIVL 411-01 Engineering Management
ENGR 650-81 Overview of Technical Project Management (Course developer and instructor)

Summer 2005

CIVL 411-91 Engineering Management

Spring 2005

CIVL 327-81 Asphalt and Concrete Laboratory
CIVL 402-01 Geotechnical Engineering Laboratory
CIVL 402-02 Geotechnical Engineering Laboratory
CIVL 410-01 Geotechnical Engineering II
CIVL 410-81 Geotechnical Engineering II

Fall 2004

CIVL 100-03 Introduction to Civil Engineering
CIVL 409-81 Introduction to Geotechnical Engineering
CIVL 411-01 Engineering Management

Summer 2004

CIVL 411-91 Engineering Management

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Spring 2004

CIVL 101-03 Engineering Drawing
CIVL 402-02 Geotechnical Engineering Laboratory
CIVL 410-01 Geotechnical Engineering II
CIVL 410-81 Geotechnical Engineering II

Fall 2003

CIVL 102-03 Introduction to Civil Engineering
CIVL 102-06 Introduction to Civil Engineering
CIVL 409-81 Introduction to Geotechnical Engineering
CIVL 411-01 Engineering Management

Summer 2003

CIVL 411-91 Engineering Management

Spring 2003

CIVL 101-03 Engineering Drawing
CIVL 101-04 Engineering Drawing
CIVL 410-01 Geotechnical Engineering II
CIVL 410-81 Geotechnical Engineering II

Fall 2002

CIVL 102-01 Introduction to Civil Engineering
CIVL 102-03 Introduction to Civil Engineering
CIVL 301-01 Dynamics
CIVL 301-81 Dynamics

B- Teaching Activities not included in courses listed above

Established the Outdoor Soils Laboratory on The Citadel campus for instruction of civil engineering students in site investigation activities and pile driving operations. Twice a year, student classes met in the Outdoor Soils Laboratory to observe local engineering and testing company personnel operate testing equipment and to participate in pile driving operations.

Organized and took students on site visits to help develop understanding and knowledge of engineering and the applicable course content. These site visits included:

- Construction of The Citadel Pistol Range (four visits)
- Construction of Law Barracks Replacement Project (two visits)
- Construction of Padgett-Thomas Barracks Project (four visits)
- Construction of Cooper River Bridge (four visits)
- Charleston Sewer Tunnel Replacement Project
- Charleston Readiness Center (Citadel Stadium Project) (two visits)

Taught a three-hour course preparing fifteen practicing engineers to take the geotechnical portion of the Professional Engineering Registration Examination, Charleston, SC, October 22, 2003.

Scholarly and Professional Activities

Publications

Books and Book Chapters

N/A

Scholarly Journal Publications – peer reviewed

1- Published articles in peer-reviewed journals

Plemmons, James, K., and Lansford C. Bell, "Measuring Effectiveness of Materials Management Process," American Society of Civil Engineers (ASCE) Journal of Management in Engineering, Volume 11, No. 6, page 26-32, November 1995.

2- Articles accepted for publication in peer-reviewed journals

N/A

3- Complete articles published in peer-reviewed conference proceedings

Plemmons, James K. and Raymond Jones, "Addressing the Career and Professional Development Needs of Experienced Project Professionals" Published in the Proceedings of the 2007 Annual Meeting of the American Society for Engineering Education (ASEE) Conference, Honolulu, Hawaii, June 2007. This paper was named as one of five outstanding conference papers selected from the 1,652 peer-reviewed papers presented.

Plemmons, James K., "The Prospect of Project Management Instruction in Undergraduate Engineering Education," Proceedings of the 2006 Annual Meeting of the American Society for Engineering Education Conference, in Chicago, Illinois, June 2006.

Plemmons, James K., "Application of Pedagogy or Andragogy: Understanding the Differences between Student and Adult Learners" Proceedings of the 2006 Southeastern Section Meeting of the American Society for Engineering Education Conference, in Tuscaloosa, Alabama, April 2006.

Plemmons, James K., "Integrating an Outdoor Soils Lab into Traditional Geotechnical Education," Proceedings of the 2005 Southeastern Section Meeting, American Society for Engineering Education, University of Tennessee at Chattanooga, Chattanooga, TN, April 2005.

Plemmons, James K., Alix G. Darden, "A Framework for Critical Thinking," Proceedings of the 2004 Southeastern Section Meeting, American Society for Engineering Education, Auburn University, Auburn, AL, April 2004.

Davis, William J., Timothy W. Mays, **James K. Plemmons**, "Rethinking Capstone Courses in Civil Engineering: A Response to ABET 2003-2004 Criteria for Accrediting Engineering Programs," Proceedings of the 2004 Southeastern Section Meeting, American Society for Engineering Education, Auburn University, Auburn, AL, April 2004.

Plemmons, James K., Timothy W. Mays, Kenneth P. Brannan, "The 'DLOK' Assessment Method," Proceedings of the 2003 Southeastern Section Meeting, American Society for Engineering Education, Mercer University, Macon, GA, April 2003.

Mays, Timothy W., **James K. Plemmons**, John A. Murden, Kenneth P. Brannan, "Fine-Tuning the Frequency of Testing," Proceedings of the 2003 Southeastern Section Meeting, American Society of Engineering Education, Mercer University, Macon, GA, April 2003.

4- Abstracts published in peer-reviewed conference proceedings

N/A

5- Complete articles in editorial review or invited revision stages for peer-reviewed journals

N/A

Other Published Evidence of Scholarship

1- Book reviews

N/A

2- Editorials

N/A

3- Educational materials not included above

N/A

4- Articles or features in popular press

N/A

5- Articles or features in non-refereed professional publications

Plemmons, James K., "The Citadel Breaks Ground with an Outdoor Soils Lab," *PILEDRIVER*, The official publication of the Pile Driving Contractors Association, Volume 1, Number 3, Summer 2004.

6- OTHER scholarly products not included above

N/A

Presentations at Conferences and Professional Meetings

I. Peer Reviewed

A- Posters/Oral Presentations/Symposia

1- National/International Organizations

Plemmons, James K. and Ray Jones, "Addressing the Career and Professional Development Needs of Experienced Project Professionals." Presentation for the 2007 Annual Meeting of the American Society for Engineering Education (ASEE) Conference, Honolulu, Hawaii, June 2007.

Plemmons, James K., "The Prospect of Project Management Instruction in Undergraduate Engineering Education." Presentation for the 2006 Annual Meeting of the American Society for Engineering Education Conference (ASEE), Chicago, Illinois, June 2006.

2- State/Regional Organizations

"Application of Pedagogy or Andragogy: Understanding the Differences between Student and Adult Learners" at the 2006 Southeastern Section Meeting of the American Society for Engineering Education Conference, at the University of Alabama, in Tuscaloosa, AL, April 2006.

"Integrating an Outdoor Soils Lab into Traditional Geotechnical Education," for the 2005 Southeastern Section Meeting, American Society for Engineering Education, University of Tennessee at Chattanooga, Chattanooga, TN, April 2005.

"Critical Thinking Research: Proof of Concept." for the 2005 Southeastern Section Meeting, American Society for Engineering Education, University of Tennessee at Chattanooga, Chattanooga, TN, April 2005.

"A Framework for Critical Thinking," for the 2004 Southeastern Section Meeting, American Society for Engineering Education, Auburn University, Auburn, AL, April 2004.

"The 'DLOK' Assessment Method" for the 2003 Southeastern Section Meeting of the American Society for Engineering Education Conference, Mercer University, Macon, GA, April 2003.

3- Local Organizations

N/A

B- Workshops

N/A

II. By Invitation or Volunteer

A- Posters/Oral Presentations/Symposia

1- National/International Organizations

N/A

2- State/Regional Organizations

"Overcoming the Five Dysfunctions of Engineering Teams," American Society of Civil Engineers (ASCE) South Carolina Section 2007 Annual Fall Seminar, Columbia, SC, September 14, 2007.

"Career and Professional Development for Engineers" a presentation for the South Carolina Council of Engineers and Surveyors Societies (SCCESS) Seminar, Aiken, SC, March 16, 2007.

"PMP Certification and How It Compliments any CMMI Effort," for the South Carolina Chapter of the Software Process Improvement Network (SC-SPIN), October 2006.

3- Local Organizations

"Andragogical Learning Strategies," a presentation at the Charleston Connections Conference, The Citadel, Charleston, SC., May 24, 2007.

"Incorporation of Professional Geotechnical Engineering Demonstrations into Senior Level Civil Engineering Courses," a presentation with Dr. Edward L. Hajduk at the Charleston Connections Conference, The Citadel, Charleston, SC., May 24, 2007.

Grants

A- Externally funded research grants

N/A

B- Externally funded non-research grants

N/A

C- Citadel Foundation (CF) research grants

N/A

D- Citadel Foundation (CF) presentation or development funds

Received a \$1,738.22 Faculty Development Grant funded by The Citadel Foundation to attend the workshops and participate in the Conference for Industry and Education Collaboration (CIEC) held January 24-27, 2006 in San Antonio, TX.

Workshops and Professional Development Activities

A- Workshops attended for professional development

Participated in the Project Management Institute (PMI) Charleston Chapter Professional Development Day, November 13, 2007. Seminar consisted of a day-long presentation by Dr. Eliyahu Goldratt on "The Strategy and Tactic Tree: Viable Vision Implementation," at College Center at the Complex for Economic Development, Trident Technical College.

Participated in the American Society of Civil Engineers South Carolina Section Fall 2007 Technical Seminar, Columbia, SC, September 14, 2007.

Participated in the National Effective Teaching Institute (NETI) Workshop sponsored by the Educational Research and Methods Division of the American Society for Engineering Education. June 21-23, 2007. Workshop leaders were Rebecca Brent of Education Designs, Inc.; Dr. Richard Felder of North Carolina State University, Dr. James Stice of University of Texas at Austin, and Dr. Lisa Bullard of North Carolina State University.

Participated in the Charleston Connections Conference: Innovations in Higher Educations, The Citadel, Charleston, SC, May 24, 2007.

Participated in the six-hour "Basic People Skills" training, presented by the Tau Beta Pi Engineering Futures Program, The Citadel, Charleston, SC, April 21, 2007.

Participated in the eight-hour "AIA Contracts" Seminar, presented by Lorman Educational Services, North Charleston, SC., April 4, 2007.

Participated in the American Society of Civil Engineers South Carolina Section Spring 2007 Technical Seminar, Aiken, SC, March 16, 2007.

Participated in a one-day Reinforced Concrete Pipe and Products Seminar –301, presented by the Carolinas Concrete Pipe and Products Association, in Charleston, SC, December 19, 2006.

Participated in a one-day Best Practices in Engineering Education Workshop in conjunction with the American Society for Engineering Education Southeast Section Annual Conference, University of

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Professional Engineer (PE), South Carolina, No. 11578, May 1987-present.

Project Management Professional (PMP), Project Management Institute, No. 1487, 1993-present.

Service

Service to the College, Schools, and Department

Service to the College

A- Standing college-wide Committees

Member, Evaluation of Instruction Committee, 2005 - present

Member, Scholarship Committee, 2005 - present

Chair, The Citadel Computer Services Committee, 2004 – 2005

Member, The Citadel Computer Services Committee, 2003 – 2005

Member, The Citadel Faculty Employment Committee, 2004 - 2005

B- College-wide *ad hoc* committees or task force

Board Member, The Citadel Center for Leadership Development (CCLD), 2004 – 2006

Faculty Member, The Science, Technology, Engineering, and Mathematics (STEM) Council, 2007 – Present.

C- College-wide Accreditation or Strategic Planning Initiatives

N/A

D- Other service to the College

Facilitator, Citadel Academy for the Scholarship of Teaching, Learning, and Evaluation (CASTLE), 2004 – 2005

Member, Citadel Academy for the Scholarship of Teaching, Learning, and Evaluation (CASTLE), 2002 – Present

Service to the School and/or Department

A- Departmental/school standing committees/Programs

ABET Preparation and Assessment Committee (All Department Faculty)

Engineers Week Coordinator, 2006 and 2007

Freshman Committee, 2004 - 2007

Laboratory and Equipment Committee, 2005 – present

Library Liaison, 2004 – present

Departmental Newsletter Editor, 2006 – present

Engineering Community Outreach, 2004 – present

Student Advisor Council Advisor, 2006 – present

Himelright Lecture Series Coordinator, 2006 – 2007

Faculty Member and Treasurer for The Citadel Tau Beta Pi Honor Society (Gamma South Carolina)

Secretary/Treasurer for the Colonel Loring K. Himelright Scholarship Fund

School of Engineering Tau Beta Pi Honor Society (Gamma South Carolina) Community Service Project. Lead and facilitated the Young Engineers at Schroder (YES) Club. In 2006 and 2007, I visited and met with students and teachers 23 times to introduce them to engineering concepts and the civil engineering career field. Two Tau Beta Pi members assisted me in working with the students at R.D. Schroder Middle School in Hollywood, SC.

American Society of Civil Engineers Student Chapter. For the Carolinas Conference hosted by The Citadel, April 2007. Activities included coordinating of the guest speaker, Bill Marcuson, President, American Society of Civil Engineers; photographing conference events including the Concrete Canoe Race, Steel Bridge Competition, Quiz Bowl, Balsawood Bridge Contest, Knobmore Challenge, and Mystery Competition, and assisting students in evaluating the National Geotechnical Competition Rules and attempting to identify a potential and viable geotechnical engineering competition event.

B- Departmental *ad hoc* committees or task forces

Civil and Environmental Engineering Department *Ad hoc* Peer Review Committee, 2005

C- Other School or Departmental service

Proctor, Fundamentals of Engineering (FE) Exam, 2003 – 2004.

American Society of Civil Engineers (ASCE) Community Service project at Mepkin Abbey in Berkeley County, October 2002. Cadets worked with Pinopolis Boy Scout Troop 743 to clear vegetation to create a footpath from Henry Laurens' home to his gravesite.

Service to Students

A- Summary of student advising responsibilities

I take very seriously my responsibility to advise my students regarding their academic and career options. Over the years, I have been faculty advisor to the following number of students:

<u>Semester</u>	<u>Number of Students</u>
Fall 2007	36
Spring 2007	26
Fall 2006	29
Spring 2006	25
Fall 2005	28
Spring 2005	20
Fall 2004	19
Spring 2004	14
Fall 2003	19
Spring 2003	11

In addition, I have advised students regarding their career options and have written letters of recommendation for several students.

B- Faculty Advisor roles for clubs, companies, or other student groups

“Alpha” Company Faculty Advisor from 2004 to present. During this time, it has been my privilege to welcome the “Alpha” Company freshmen during Orientation, work with their cadet Academic Officer and TAC Officer to improve freshman grades, and to counsel individual cadets on their academic performance. In Fall 2007, I arranged for freshmen with mid-term grades of “C” or lower to attend tutoring sessions at The Citadel Writing and Learning Center.

C- Other service to students

Sponsored six (6) freshman cadets. Currently, sponsor one female freshman cadet from Taiwan and one male freshman cadet from North Carolina.

Service to the Community or Public

Member, American Society of Civil Engineers (ASCE), 2002 – present.

Member, Project Management Institute (PMI), 1993 – present.

Member, Project Management Institute (PMI), Charleston Chapter, 2002 – present.

Member, Board of Directors, Pile Driving Contractors Association (PDCA) South Carolina Chapter, 2003 – present.

Member, Pile Driving Contractors Association (PDCA), 2002 – present.

Member, The Civil Engineers Club of Charleston, SC, 2007 – present.

Represented The Citadel Department of Civil and Environmental Engineering and School of Engineering at CGPS Open House, November 2006.



Represented The Citadel School of Engineering at a CGPS Open House at SPAWARSSYSCEN Charleston Education Fair, March 2006.

Member, National Defense Industrial Association (NDIA) Science and Engineering Technology (SET) Committee for 5th Annual Science & Engineering Technology Conference/DoD Tech Expo, Charleston, SC, 2005.

Member, National Defense Industrial Association (NDIA) Science and Engineering Technology (SET) Committee for 4th Annual Science & Engineering Technology Conference/DoD Tech Expo, Charleston, SC, 2004.

Chairman, School Board, First Baptist Church School, 2005 – 2006.

Member and Chairman, School Board, First Baptist Church School, 2002 – 2004.

Judge, 9th Grade Science Fair, First Baptist Church School, 2004.

Service to the Discipline

A- Offices in local, state regional, or national organizations

Vice-President, Programs American Society for Engineering Education (ASEE) Southeastern Section, 2007 – present.

Vice-Chairman, Programs and Program Chair for the 2007 Conference, American Society for Engineering Education (ASEE) Southeastern Section, 2006 – 2007

Secretary, Programs, American Society for Engineering Education (ASEE) Southeastern Section, 2005 – 2006

Chair, Instructional Division, American Society for Engineering Education (ASEE) Southeastern Section, 2004 – 2005

Chair, Special Interest Group for Continuing Professional Development Faculty (SIG-FAC), 2006 – present. Organized as part of the Leadership Team of the American Society for Engineering Education (ASEE) Continuing Professional Development Division (CPDD), this is a group of faculty interested in issues relative to the education and training of engineering professionals through continuing engineering education programs, with emphasis on andragogical learning strategies (adult learners), course development, and other issues related to the education of adults learners.

Member, American Society for Engineering Education (ASEE), 2002 – present

B- Committee work in local, state regional, or national organizations

Corresponding Member of the American Society of Civil Engineers Body of Knowledge Second Edition Task Committee on Academic Prerequisites for Professional Practice (ASCE BOK2), 2006 – present.

Panel Member, reviewing nine (9) proposals submitted to the National Science Foundation's Course, Curriculum, and Laboratory Improvement (CCLI) program, Washington, DC., July 25-26, 2005. For my participation, I received a small stipend to cover expenses.

Panel Member, reviewing eight (8) proposals submitted to the National Science Foundation's Course, Curriculum, and Laboratory Improvement (CCLI) program, Washington, DC., July 28-31, 2004. For my participation, I received a small stipend to cover expenses.

C- Service in editorial reviewing for conferences or publications

Reviewed five manuscripts for American Society for Engineering Education Southeastern Section Conference, University of Louisville, Louisville, KY, April 2007.

Reviewed seven manuscripts for American Society for Engineering Education Southeastern Section Conference, University of Alabama, Tuscaloosa, AL, April 2006.

Reviewed manuscripts for American Society for Engineering Education Southeastern Section Conference, University of Tennessee, Chattanooga, TN, April 2005.

Reviewed manuscripts for American Society for Engineering Education Southeastern Section Conference, Auburn University, Auburn, AL, April 2004.

D- Service on Editorial Boards

N/A

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